

## ABSTRACT OF THE DISCLOSURE

Disclosed are implants for use in biomedical treatment thermally, including thermo-coil, thermo-guide wire and thermostent. Thermally heated, magnetic material selected from among duplex stainless steel, nickel-copper alloy, iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy is fabricated into coils or tubular forms which can be inserted into the lumen. The material is treated at 200-1,500°C. After being inserted into the body, the implants can generate heat by themselves in response to the application of an external magnetic field, without a separate electrical connection to the exterior, thereby inducing necrosis or physiological changes at the target site and neighboring tissues to improve therapeutic effects at the target site. In addition to the hyperthermic effects, prevention of lumen restenosis and expansion from thermostent, interruption of blood flow can be obtained from the thermo coil, necrotization of unwanted tissue and closing of unwanted lumens from the thermo-guide wire.